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Updated IB39 Fibre Reinforced Concrete

As a result of developments in fibres and Fibre Reinforced Concrete (FRC) CCANZ *IB39 Fibre Reinforced Concrete* has recently been updated.

By outlining the different fibre types and different fibre reinforced concretes commonly available in New Zealand, *IB39* seeks to assist understanding of the properties, appropriate testing and the degree of quality control/ assurance necessary to ensure that concrete design requirements are satisfied.

The over-riding message of *IB39* is that it is imperative to recognise that a FRC designed and tested with a particular type and brand of fibre cannot be assumed to have the same properties as a FRC made from different fibres. This includes fibres that may look the same but come from different manufacturers or suppliers.

A copy of *IB39 Fibre Reinforced Concrete* can be downloaded from the CCANZ website: www.cca.org.nz

Jon Hambling Appointed NZRMCA President



Jon Hambling

The New Zealand Ready Mixed Concrete Association has appointed Jon Hambling as President. Jon has been involved with the NZRMCA at regional and council level for nearly 10 years, and will be responsible for leading the organisation that represents the interests of ready mixed concrete producers in New Zealand.

"I am committed to advancing the ready mixed concrete industry through an ongoing programme of promotion and development," Jon says. "The importance of the NZRMCA in matters of quality control, training and standards development cannot be overstated, and I consider it a privilege to head the organisation in its endeavours."

Outgoing President Graham Payne said the NZRMCA is delighted with the appointment. "The NZRMCA is extremely pleased that Jon will lead the organisation into the future," Graham says. "He has tremendous knowledge of the challenges and opportunities that face our industry, as well as great experience in industry representation."

Jon has worked for Fletcher Concrete/Firth Industries for 18 years in various positions, including South Island Chief Operating Officer.

Northern Gateway Wins 2009 Concrete³ Sustainability Award



Noel Nancekivell, Principal Civil Engineer, URS NZ Ltd receives the 2009 Award from Rob Gaimster, CCANZ CEO

The Northern Gateway Toll Road, a \$360 million extension of SH1 from Orewa to Puhoi, has taken out the 2009 Concrete³ Sustainability Award.

The 7.5km four-lane highway was completed by the Northern Gateway Alliance and was, at the time, the NZTA's largest ever capital project.

Among numerous other features the project achieved top honours in concrete sustainability for the concrete lining in the road's twin tunnels, which made extensive use of polypropylene fibres for fire resistance, and its bridge structures, which used match-cast technology for the first time in NZ.

Launched in 2007, the Concrete³ Sustainability award acknowledges companies whose product, programme or initiative demonstrates excellence in environmental, economic or social sustainability.

The Northern Gateway Toll Road is a benchmark project. Every aspect, from design through to operation, considered ways in which to contribute to New Zealand's sustainable development.

CCANZ chief executive Rob Gaimster says the Toll Road is truly significant and the Alliance behind it demonstrated a genuine commitment to large-scale sustainable construction. The project's sustainable use of concrete, in particular its durability and fire resistance, is outstanding.

Such was the diversity of entries in the 2009 Award that commendations were also announced for projects that excelled in differing areas of sustainable concrete construction.

Excellence in Concrete Construction Innovation was awarded to Allied Concrete Limited for its use of recycled crushed concrete in ready mixed concrete production for the Wellington Zoo Hospital Complex.

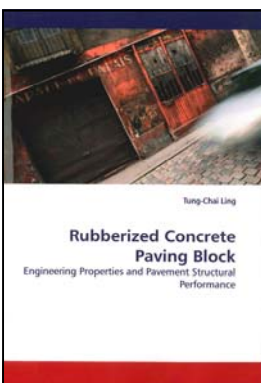
Excellence in Residential Concrete Construction was awarded to Cranko Architects for Sustainable House, a stylish private dwelling that takes advantage of concrete for its energy efficient thermal mass and its low maintenance features.

Excellence in Commercial Concrete Construction was awarded to Studio Pacific Architecture for Site 7: Meridian Building, NZ's first 5 Green Star building, which used concrete as a core structural material.

Building on the success of the 2008 Award, which was won by Holcim (New Zealand) Ltd and Mainzeal Property and Construction for the use of recycled glass as aggregate in concrete at Lion Nathan's Project Century, the number and calibre of entries in the 2009 Award was extremely high.

Concrete³ looks forward to again celebrating concrete's contribution to our sustainable development at the 2010 Concrete Conference to be held at the Wellington Convention Centre from 7 October.

CCANZ Library - Recent Addition



Rubberized Concrete Paving Block: Engineering Properties and Pavement Structural Performance by Tung-Chai Ling

This book details a series of investigations into the potential use of waste tyres as a partial sand replacement in concrete. The investigations involved studying the correlation between rubberized concrete paving block (RCPB) mixtures, and analysing the feasibility of commercially producing RCPB.

The Highway Accelerated Loading Instrument (HALI) was also developed, and used to test RCPB pavement subjected to repeated load cycles. Results demonstrated that all types of RCPB can be introduced to various types of pavement according to the traffic volume and the application of the pavement.

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